

```

*Multilayer Perceptron Network.
MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.000005
SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:17:40
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
	Missing Value Handling	Definition of Missing
Cases Used		Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.45
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

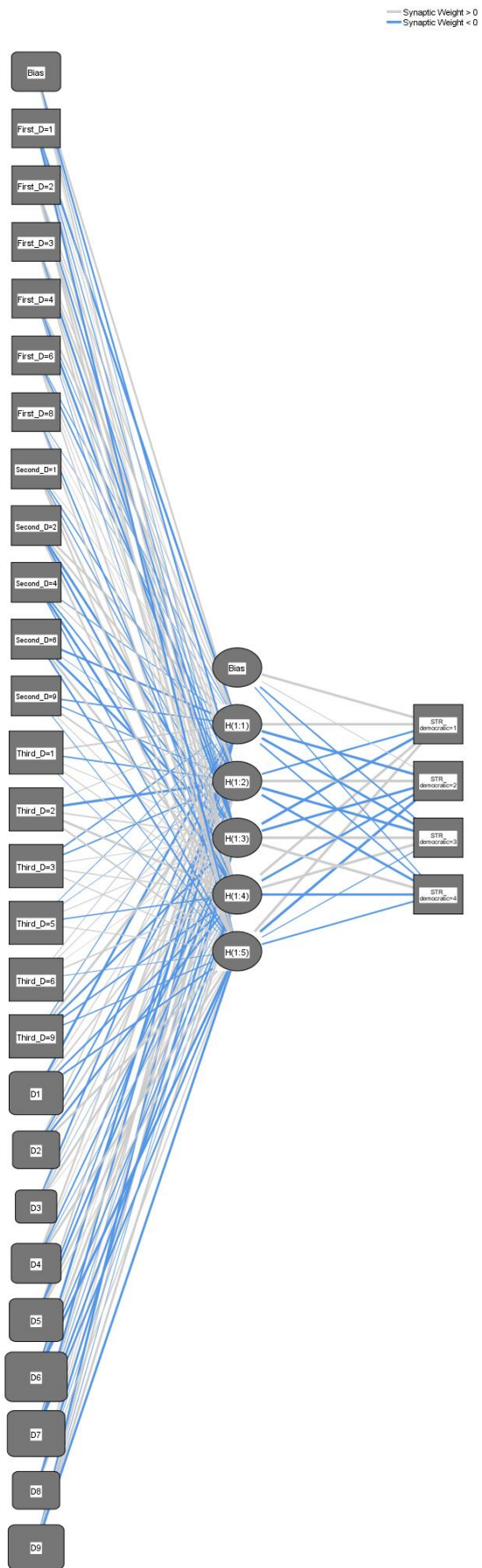
	N	Percent
Sample		
Training	10	83.3%
Testing	2	16.7%
Valid	12	100.0%
Excluded	92	
Total	104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	26
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	5
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.270
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.00
Testing	Cross Entropy Error	.027
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1					Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	[STR_demo cratic=1]	[STR_demo cratic=2]	[STR_demo cratic=3]	[STR_demo cratic=4]
Input Layer									
[Bias]	.562	-.526	-.073	.435	.022				
[First_D=1]	-.757	.069	-.230	.284	-.722				
[First_D=2]	.297	.340	-.467	.622	.557				
[First_D=3]	.249	.597	-.624	.341	.471				
[First_D=4]	.505	-.119	-.674	.288	-.087				
[First_D=6]	-.174	-.392	.272	.078	.352				
[First_D=8]	-.054	.049	.033	-.385	.392				
[Second_D=1]	.113	-.294	-.251	.615	.489				
[Second_D=2]	.579	.564	-.934	-.585	.539				
[Second_D=4]	-.220	.243	-.392	-.818	-.326				
[Second_D=6]	-.603	-.029	-.778	.801	-.493				
[Second_D=9]	-.371	-.281	.471	.145	-.140				
[Third_D=1]	.455	-.346	.144	.228	-.087				
[Third_D=2]	.188	-1.137	.342	.870	.491				

	[Third_D=3]	-.410	-.364	.122	.276	.247				
	[Third_D=5]	-.088	-.051	.198	-.309	.221				
	[Third_D=6]	.225	.164	.043	.385	-.083				
	[Third_D=9]	-.189	1.064	-.596	-.429	-.293				
	D1	-.868	.187	.385	-.510	-.496				
	D2	.332	-.430	.518	-.611	.631				
	D3	-.510	.329	-.009	.774	.018				
	D4	.562	.125	-.429	-.075	.785				
	D5	.462	-.344	-.609	.766	.262				
	D6	-.982	.105	.816	-.370	-1.106				
	D7	-.659	.563	-.123	-.589	-.549				
	D8	.299	.229	-.616	-.059	.291				
	D9	-.934	.650	-.086	.731	-.817				
Hidden Layer	(Bias)						1.120	.127	-.432	-.262
1	H(1:1)						2.564	-1.341	-1.060	-.417
	H(1:2)						-.539	2.170	-1.471	-.855
	H(1:3)						-1.396	-1.122	1.759	1.734
	H(1:4)						1.168	-.792	1.345	-.928
	H(1:5)						1.726	-2.063	-.224	-.479

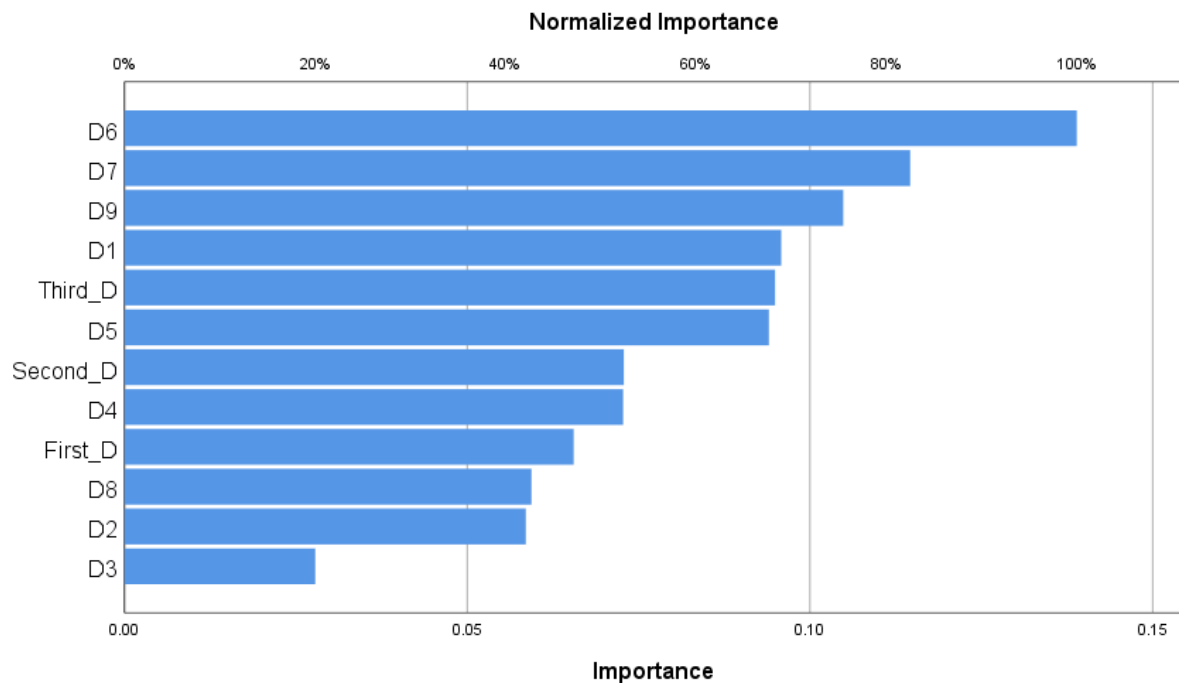
Classification

Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	4	0	0	0	100.0%
	mediocre option	0	3	0	0	100.0%
	good option	0	0	2	0	100.0%
	best option	0	0	0	1	100.0%
	Overall Percent	40.0%	30.0%	20.0%	10.0%	100.0%
Testing	worst option	1	0	0	0	100.0%
	mediocre option	0	1	0	0	100.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent	50.0%	50.0%	0.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.066	47.2%
Second discourse in text	.073	52.4%
Third discourse in text	.095	68.3%
CONTACT RESTRICTION	.096	69.0%
SANITATION AND HYGIENE	.059	42.1%
ISOLATION OF INFECTED	.028	20.0%
TOTAL ISOLATION	.073	52.4%
HEALTH CARE	.094	67.7%
VIRUS DISSEMINATION	.139	100.0%
LIFESTYLE CHANGES	.115	82.5%
RIGHTS AND FREEDOMS INFRINGEMENT	.059	42.7%
BUREAUCRATIC RESPONSE	.105	75.5%



*Multilayer Perceptron Network.

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9

/RESCALE COVARIATE=STANDARDIZED

/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0

/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)

/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE

LAMBDAINITIAL=0.0000005

```

    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:18:45
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.41

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

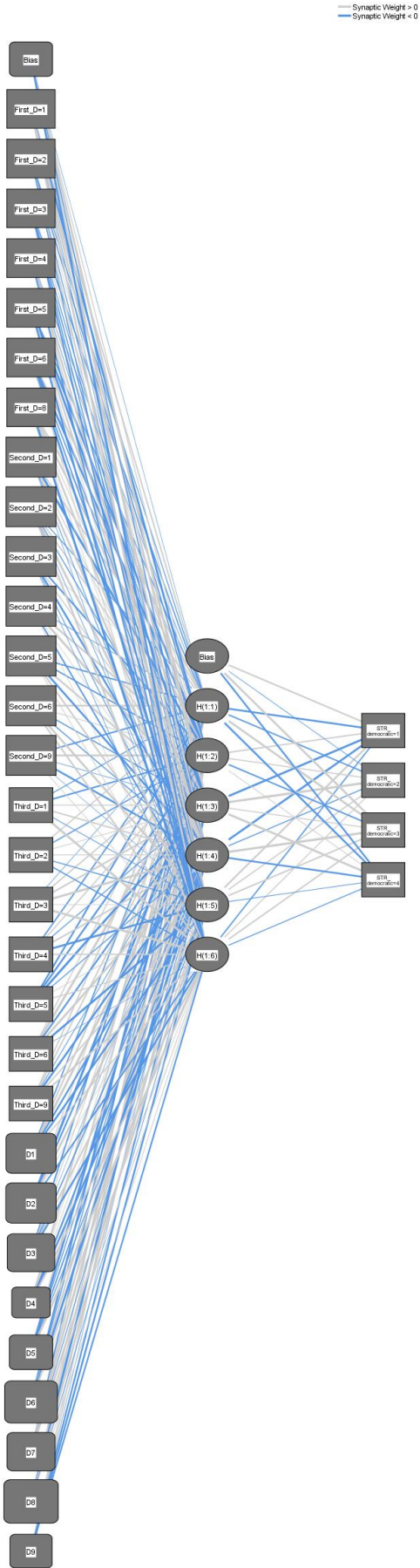
		N	Percent
Sample	Training	13	92.9%
	Testing	1	7.1%
Valid		14	100.0%
Excluded		90	
Total		104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	30
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	6
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	15.860
	Percent Incorrect Predictions	53.8%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.02
Testing	Cross Entropy Error	.421
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1						Predicted	Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	[STR_democ ratic=1]	[STR_democ ratic=2]	[STR_democ ratic=3]	[STR_democ atic=4]	
Input Layer											
(Bias)	-.015	.157	.822	-.218	.399	-.565					
[First_D=1]	.353	-.603	.515	.538	-.030	.561					
[First_D=2]	-.142	-.250	.029	-.144	.361	-.203					
[First_D=3]	-.223	.108	-.140	-.237	-.190	-.406					
[First_D=4]	-.038	.364	-.075	.531	.222	-.399					
[First_D=5]	-.215	-.620	-.660	.422	.096	-.532					
[First_D=6]	.551	-.601	-.221	-.285	-.634	.126					
[First_D=8]	.282	.487	.085	.515	.028	-.826					
[Second_D=1]	.338	-1.079	.116	.541	-.102	-.024					
[Second_D=2]	-.140	.277	-.183	.652	-.054	.532					
[Second_D=3]	.018	-.422	.210	-.496	-.117	-.051					
[Second_D=4]	-.069	.493	.739	.033	-.364	.018					
[Second_D=5]	-.352	-.288	.470	-.538	.411	.082					
[Second_D=6]	.445	.111	-.246	-.200	.604	.419					
[Second_D=9]	-.366	.499	-.043	-.490	-.016	.070					
[Third_D=1]	-.166	-.368	.163	.360	-.097	.784					
[Third_D=2]	.268	-.245	.101	.120	-.199	-.254					
[Third_D=3]	-.033	.358	.424	.674	.043	.735					
[Third_D=4]	-.344	.252	-.177	.402	-.552	.291					

[Third_D=5]	- .431	- .476	- .726	- .184	.064	.216				
[Third_D=6]	.208	.758	- .431	.652	- .616	-.002				
[Third_D=9]	.304	.352	- .100	- .545	.316	.466				
D1	- .267	.384	.814	- .441	- .525	.260				
D2	.179	- .869	- .406	.585	.019	- .374				
D3	- .368	.102	- .004	- .247	.403	- .504				
D4	.633	.039	.044	- .415	- .535	.462				
D5	.381	- .677	- .155	- .269	- .158	.694				
D6	- .540	- .184	.444	- .693	.317	.052				
D7	- .365	.373	.652	- .115	.547	.135				
D8	.219	.417	- .990	.571	- .073	.076				
D9	.147	.344	- .016	- .418	- .481	- .379				
Hidden Layer 1 (Bias)							.399	- .071	.569	- .448
H(1:1)							- .484	- .313	.583	- .520
H(1:2)							.319	.219	- .356	.092
H(1:3)							- .613	.802	.185	.643
H(1:4)							- .580	- .184	.836	- .447
H(1:5)							.481	.262	.372	- .092
H(1:6)							- .276	.198	.371	- .172

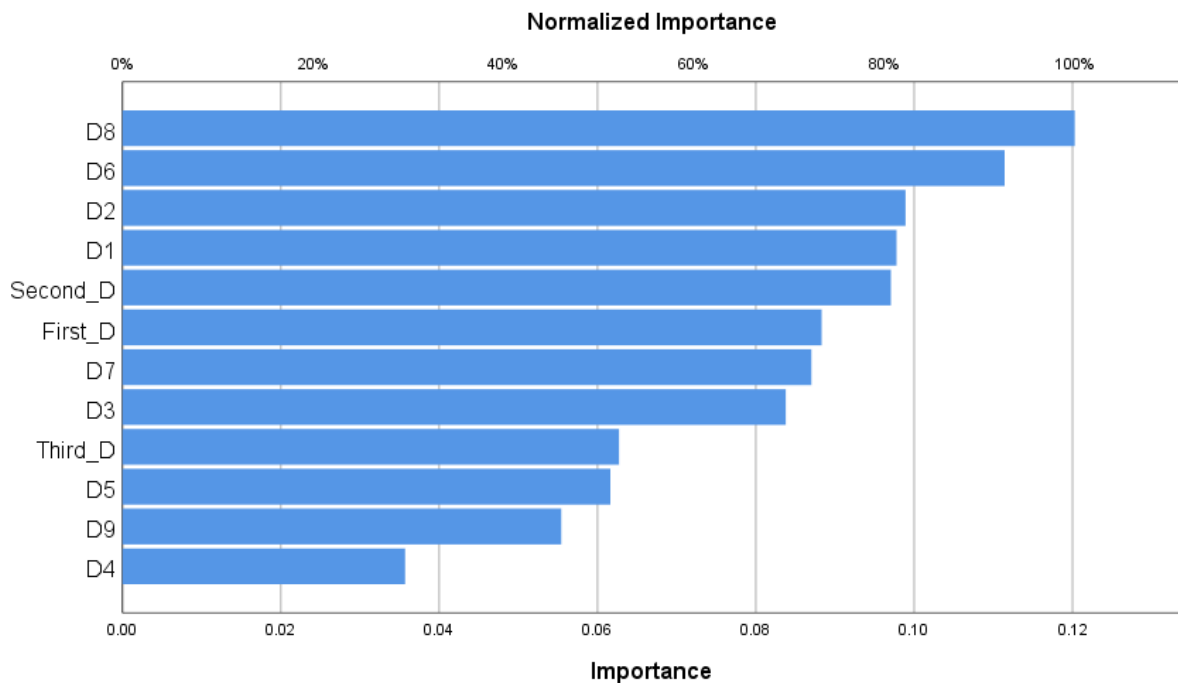
Classification

Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	1	0	3	0	25.0%
	mediocre option	1	3	1	0	60.0%
	good option	0	1	2	0	66.7%
	best option	0	1	0	0	0.0%
	Overall Percent	15.4%	38.5%	46.2%	0.0%	46.2%
Testing	worst option	1	0	0	0	100.0%
	mediocre option	0	0	0	0	0.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent	100.0%	0.0%	0.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.088	73.4%
Second discourse in text	.097	80.7%
Third discourse in text	.063	52.1%
CONTACT RESTRICTION	.098	81.3%
SANITATION AND HYGIENE	.099	82.2%
ISOLATION OF INFECTED	.084	69.7%
TOTAL ISOLATION	.036	29.7%
HEALTH CARE	.062	51.2%
VIRUS DISSEMINATION	.111	92.6%
LIFESTYLE CHANGES	.087	72.3%
RIGHTS AND FREEDOMS INFRINGEMENT	.120	100.0%
BUREAUCRATIC RESPONSE	.055	46.1%



*Multilayer Perceptron Network.

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9

```

/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005

```

```

    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:19:19
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.37
	Elapsed Time	00:00:00.41

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

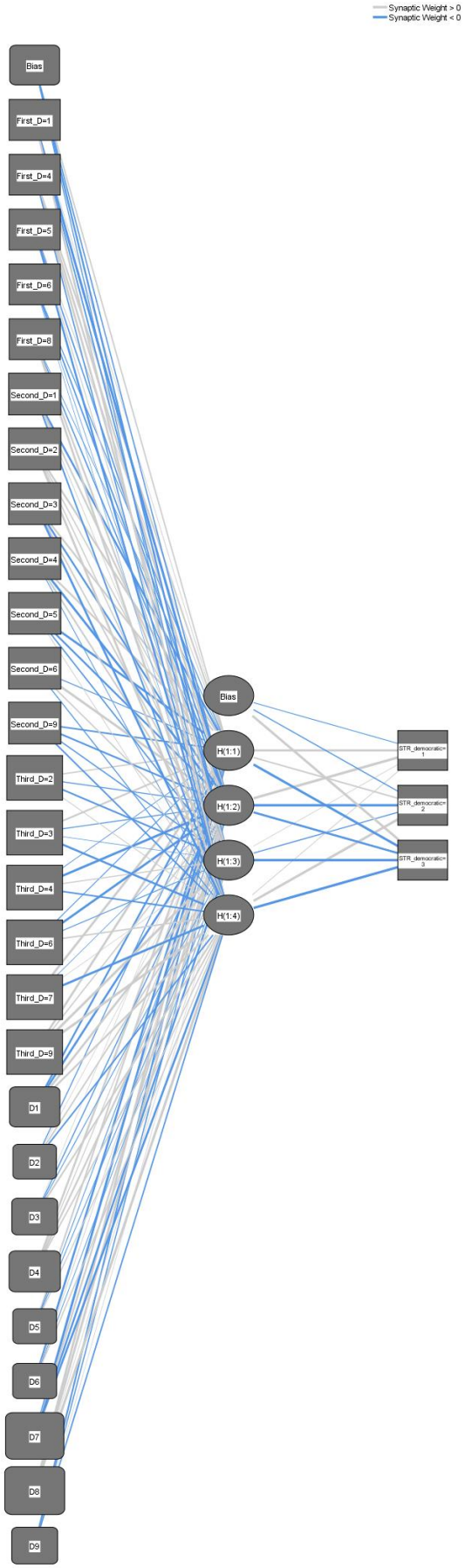
	N	Percent
Sample		
Training	9	90.0%
Testing	1	10.0%
Valid	10	100.0%
Excluded	94	
Total	104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	27
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	4
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	3
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.620
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.295
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1				Predicted	Output Layer		
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	[STR_democr atic=1]	[STR_democr atic=2]	[STR_democr atic=3]	
Input Layer								
(Bias)	.267	-.237	-.450	-.144				
[First_D=1]	.053	-.821	-.289	.535				
[First_D=4]	.373	.523	.568	-.249				
[First_D=5]	.072	-.245	.103	-.553				
[First_D=6]	-.138	-.283	-.024	-.004				
[First_D=8]	-.061	-.240	.414	.607				
[Second_D=1]	-.555	.385	.061	-.323				
[Second_D=2]	.511	.226	.201	.652				
[Second_D=3]	.422	-.454	.289	-.633				
[Second_D=4]	.475	-.697	.351	-.075				
[Second_D=5]	-.654	-.457	-.253	.061				
[Second_D=6]	-.123	.859	.253	-.154				
[Second_D=9]	-.340	-.399	-.207	-.313				
[Third_D=2]	.242	-.153	-.377	.093				
[Third_D=3]	.418	-.140	-.018	-.581				
[Third_D=4]	-.066	-.815	.185	-.312				
[Third_D=6]	-.118	-.743	-.112	.286				
[Third_D=7]	.788	-.050	.030	-.708				
[Third_D=9]	.692	.248	.960	1.264				

	D1	-.455	-.627	.662	.507			
	D2	-.158	.014	.289	-.307			
	D3	.009	-.181	-.087	.380			
	D4	.557	.137	.446	.278			
	D5	.354	-.077	-.079	.163			
	D6	-.580	.056	-.065	.227			
	D7	-.846	.406	-.500	-.586			
	D8	.793	.695	.018	.877			
	D9	-.368	-.192	.008	-.277			
Hidden Layer 1	(Bias)					-.094	-.183	.874
	H(1:1)					.682	.297	-.871
	H(1:2)					1.900	-1.167	-.611
	H(1:3)					.052	-.169	-.913
	H(1:4)					.067	1.405	-1.561

Classification

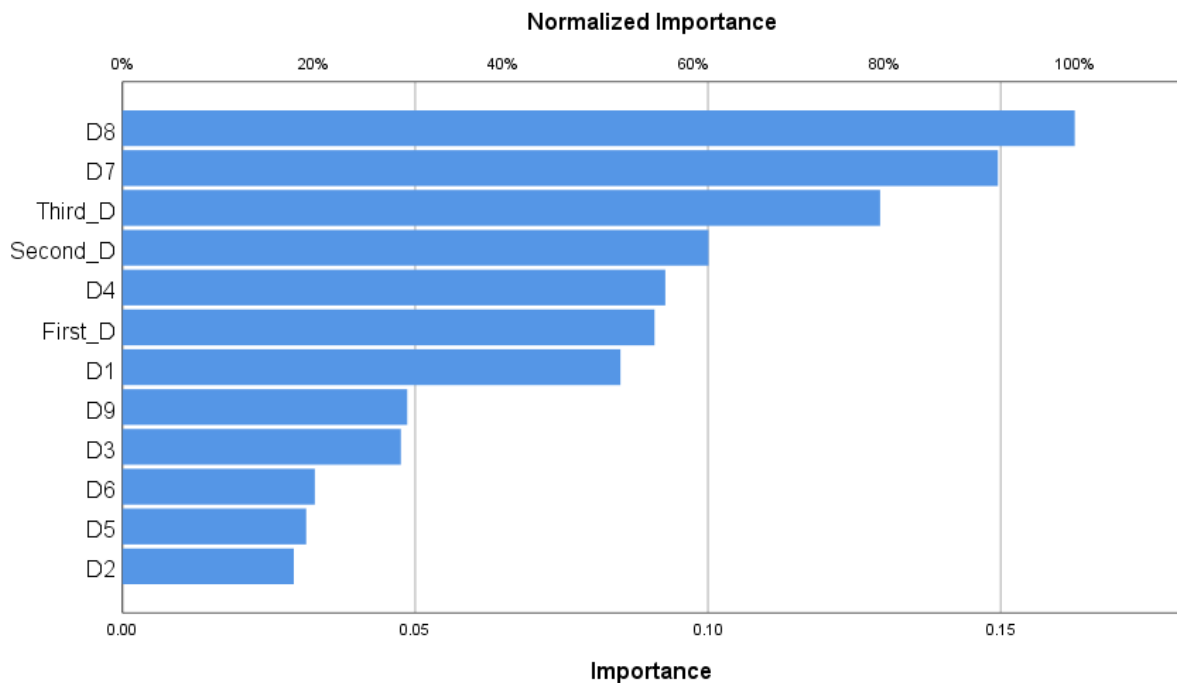
Sample	Observed	Predicted			Percent Correct
		worst option	mediocre option	good option	
Training	worst option	2	0	0	100.0%
	mediocre option	0	3	0	100.0%
	good option	0	0	4	100.0%
	Overall Percent	22.2%	33.3%	44.4%	100.0%
Testing	worst option	0	0	0	0.0%
	mediocre option	0	1	0	100.0%
	good option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.091	55.9%
Second discourse in text	.100	61.5%
Third discourse in text	.129	79.6%
CONTACT RESTRICTION	.085	52.3%
SANITATION AND HYGIENE	.029	18.0%
ISOLATION OF INFECTED	.048	29.2%

TOTAL ISOLATION	.093	57.0%
HEALTH CARE	.031	19.3%
VIRUS DISSEMINATION	.033	20.2%
LIFESTYLE CHANGES	.150	91.9%
RIGHTS AND FREEDOMS INFRINGEMENT	.163	100.0%
BUREAUCRATIC RESPONSE	.049	29.9%



*Multilayer Perceptron Network.

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9

```

/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:19:26
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\MyDocs\Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.53
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

	N	Percent
Sample		
Training	7	77.8%
Testing	2	22.2%
Valid	9	100.0%
Excluded	95	
Total	104	

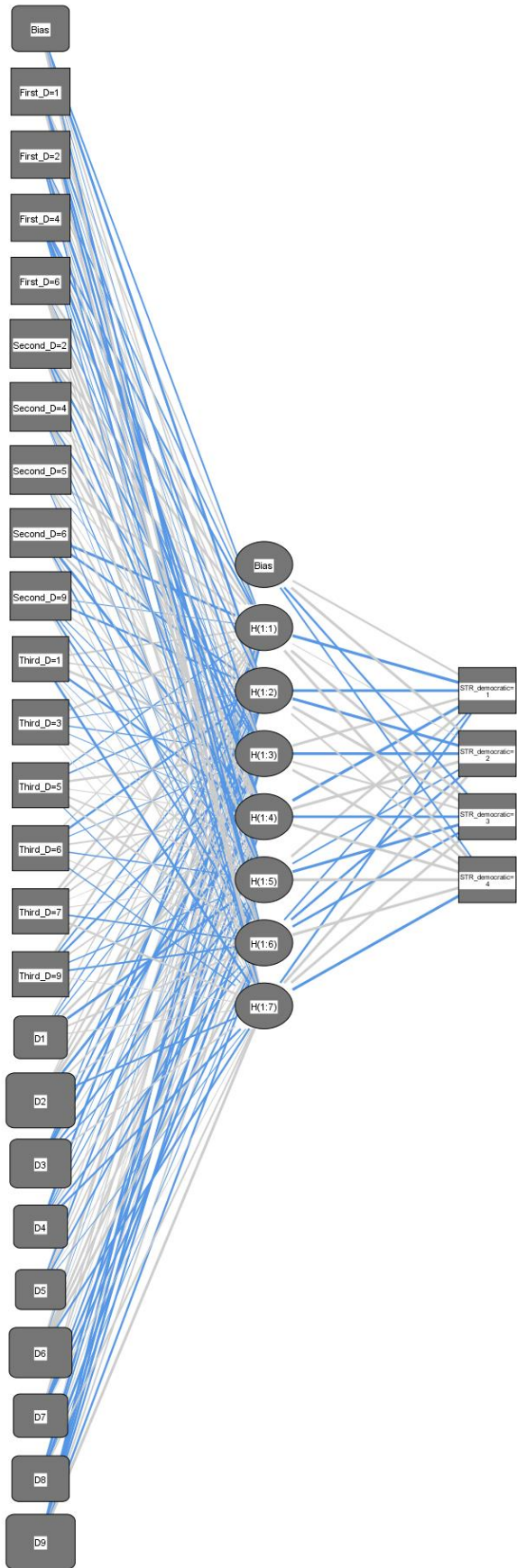
Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	24
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	7
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit

— Synaptic Weight > 0
— Synaptic Weight < 0



Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.006
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.00
Testing	Cross Entropy Error	.431
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1							Predicted	Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)		[STR_demo cratic=1]	[STR_demo cratic=2]	[STR_demo cratic=3]	[STR_demo cratic=4]
Input Layer												
(Bias)	-.348	-.675	.253	-.047	.066	-.458	.638					
[First_D=1]	.245	.114	-.426	-.018	-.511	-.545	.581					
[First_D=2]	-.262	.246	.099	-.836	-.032	.275	-.301					
[First_D=4]	-.434	-.401	.299	-.740	-.269	-.039	-.208					
[First_D=6]	.596	.005	-.153	1.033	.643	.250	.134					
[Second_D=2]	.557	.465	-.485	.124	-.444	.182	.418					
[Second_D=4]	.087	.061	-.359	.956	.163	-.169	-.015					
[Second_D=5]	.551	.118	-.013	.042	.413	.017	-.121					
[Second_D=6]	-.770	-.520	.544	-.849	.225	-.338	.087					
[Second_D=9]	-.086	-.491	.211	-.111	-.147	-.404	.113					
[Third_D=1]	.374	.201	.682	-.530	-.005	.086	-.580					
[Third_D=3]	.549	-.072	-.171	-.064	.313	.015	.051					
[Third_D=5]	-.250	-.303	.512	.071	.351	.496	-.130					
[Third_D=6]	.193	-.537	-.101	.312	-.200	.076	-.189					

[Third_D=7]	.532	.395	.375	.006	.075	-.346	.528				
[Third_D=9]	.564	-.338	-.460	.287	-.200	-.404	.068				
D1	.178	-.184	-.143	.597	-.725	.391	.105				
D2	.184	.498	.893	-.717	.272	.197	-.401				
D3	-.193	-.348	-.698	.149	-.423	-.201	.250				
D4	-.572	-.005	-.133	-.138	.212	-.357	-.462				
D5	.075	-.388	.157	.258	-.377	.037	-.074				
D6	.737	-.022	.070	.579	.593	.762	-.456				
D7	.211	.362	.045	-.336	-.497	-.402	.061				
D8	.057	-.589	-.333	.113	-.641	-.080	.389				
D9	-.693	-.732	-.747	-.429	.315	-.472	.860				
Hidden Layer	(Bias)							.447	1.028	-.490	-.365
1	H(1:1)							-2.073	.071	1.145	1.384
	H(1:2)							-1.007	-1.385	1.583	.406
	H(1:3)							.735	-2.764	.434	.741
	H(1:4)							-1.593	1.570	-.700	1.399
	H(1:5)							.715	-.344	-1.340	1.268
	H(1:6)							-.364	-.593	-.597	.971
	H(1:7)							-.494	.818	.776	-1.147

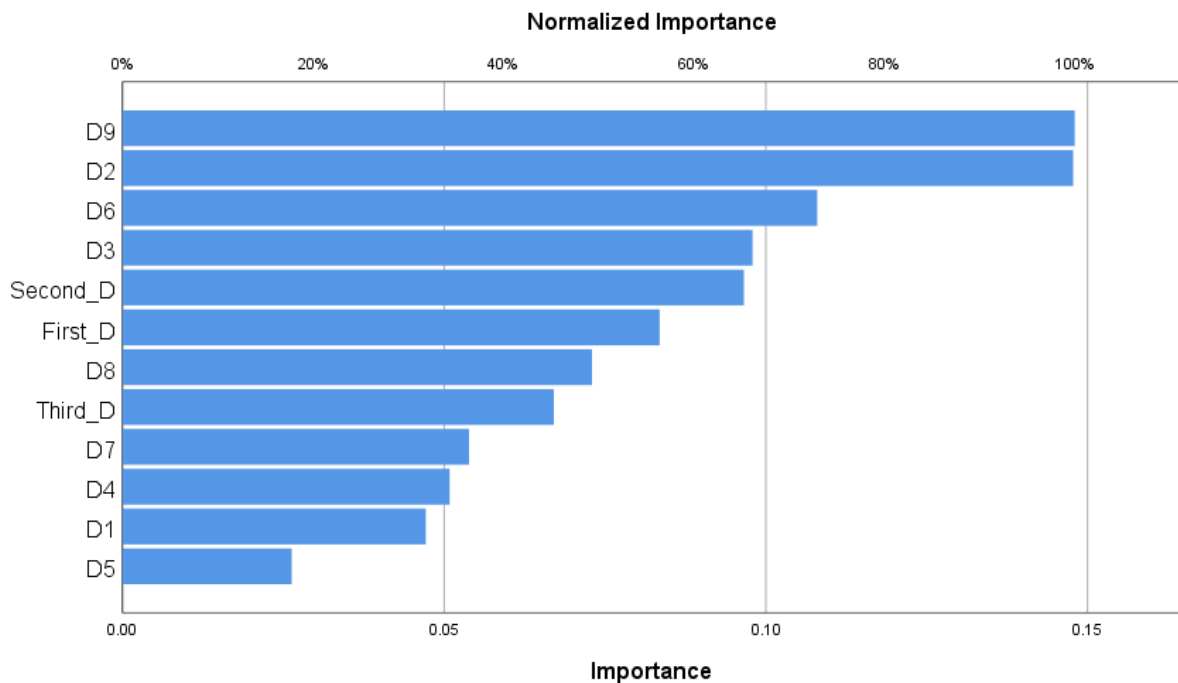
Classification

Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	2	0	0	0	100.0%
	mediocre option	0	3	0	0	100.0%
	good option	0	0	1	0	100.0%
	best option	0	0	0	1	100.0%
	Overall Percent		28.6%	42.9%	14.3%	14.3%
Testing	worst option	1	0	0	0	100.0%
	mediocre option	0	1	0	0	100.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent		50.0%	50.0%	0.0%	0.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.083	56.4%
Second discourse in text	.097	65.3%
Third discourse in text	.067	45.3%
CONTACT RESTRICTION	.047	31.9%
SANITATION AND HYGIENE	.148	99.8%
ISOLATION OF INFECTED	.098	66.2%
TOTAL ISOLATION	.051	34.4%
HEALTH CARE	.026	17.8%
VIRUS DISSEMINATION	.108	73.0%
LIFESTYLE CHANGES	.054	36.4%
RIGHTS AND FREEDOMS INFRINGEMENT	.073	49.3%
BUREAUCRATIC RESPONSE	.148	100.0%



*Multilayer Perceptron Network.

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9

/RESCALE COVARIATE=STANDARDIZED

/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0

/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)

/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE

LAMBDAINITIAL=0.0000005

```

    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:19:32
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Siencie\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.56
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

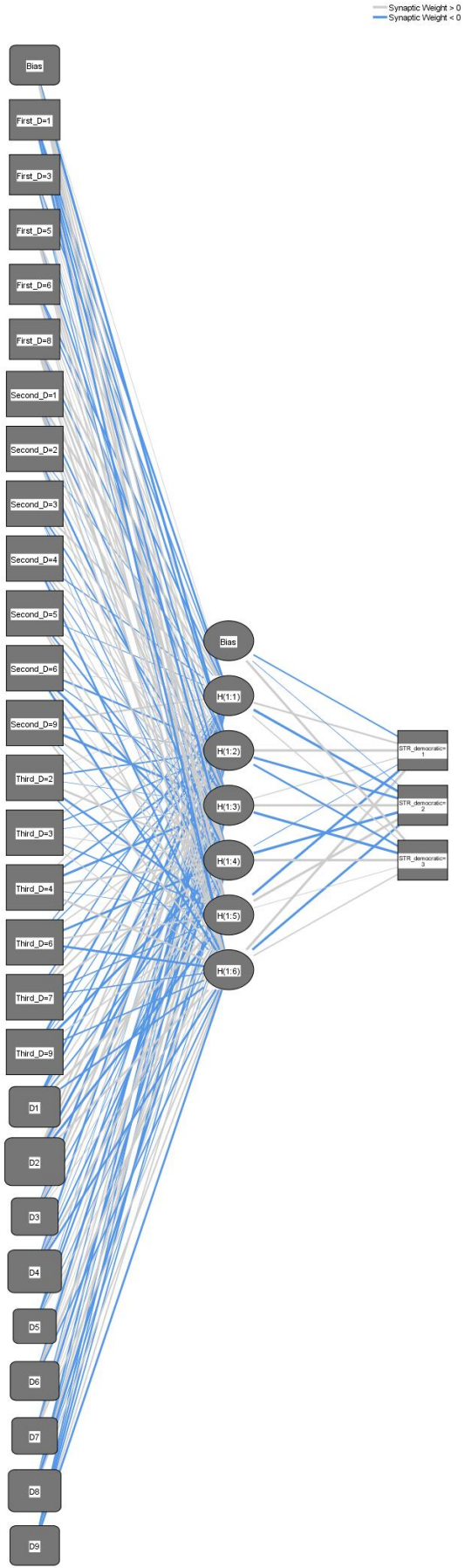
		N	Percent
Sample	Training	10	90.9%
	Testing	1	9.1%
Valid		11	100.0%
Excluded		93	
Total		104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	27
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	6
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	3
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

[Second_D=9]	.489	-.120	-1.013	.609	-.047	.500			
[Third_D=2]	.021	-.432	-.035	.711	-.716	-.273			
[Third_D=3]	.293	-.297	-.035	.074	-.280	.159			
[Third_D=4]	.278	-.517	-1.038	.732	-.019	.676			
[Third_D=6]	-.196	-.234	.268	-.834	.499	-.857			
[Third_D=7]	-.355	.438	.503	.545	-.263	-.277			
[Third_D=9]	-.847	-.186	-.036	-1.239	.314	-.369			
D1	-.504	-.522	.239	-.428	1.102	-.533			
D2	.487	.628	-1.540	.614	-1.225	.654			
D3	-.759	.892	.474	-.354	.092	.161			
D4	-.641	.256	-.047	-.465	.771	-.707			
D5	-.004	-.354	-.496	.087	-.164	.162			
D6	.112	-.872	.477	.007	.862	-.434			
D7	-.244	.292	-.730	.203	.099	.375			
D8	-.570	-.169	.712	-1.118	-.149	.383			
D9	-.448	-.373	-.614	-.341	.316	-.668			
Hidden Layer 1 (Bias)							-.382	-.055	1.062
H(1:1)							.500	-1.440	.255
H(1:2)							1.242	-.856	-.575
H(1:3)							.168	.904	-1.451
H(1:4)							-.124	-2.303	2.670
H(1:5)							-1.287	1.609	.061
H(1:6)							1.446	-.967	.319

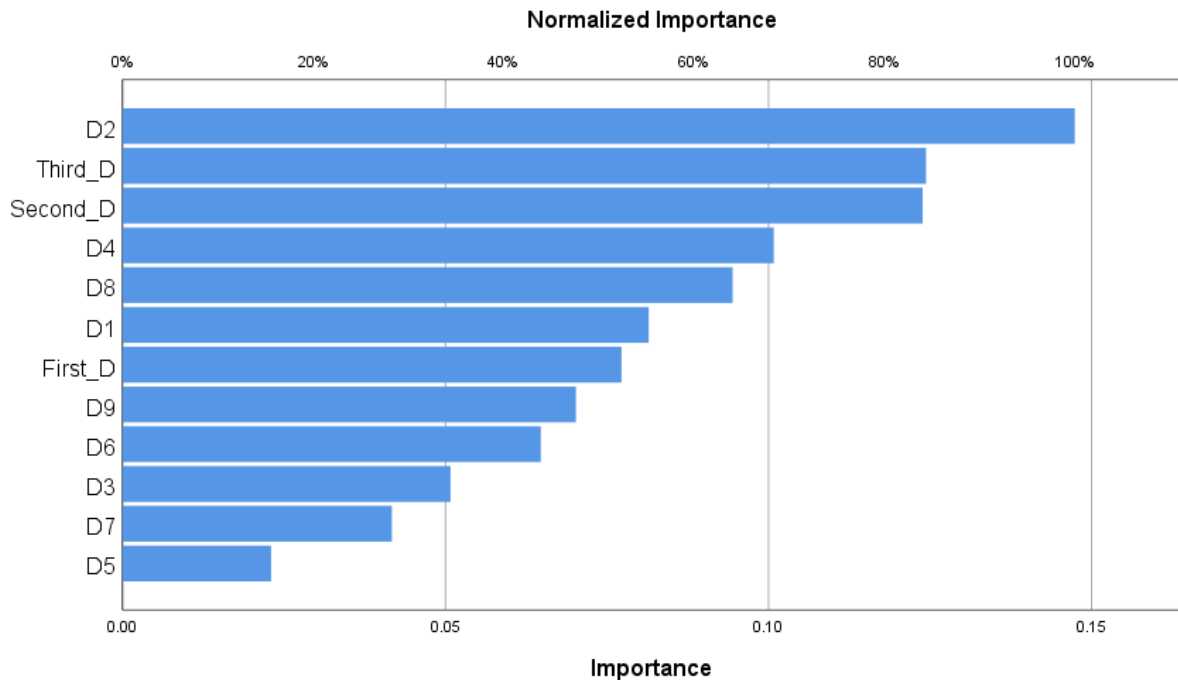
Classification

Sample	Observed	Predicted			Percent Correct
		worst option	mediocre option	good option	
Training	worst option	2	0	0	100.0%
	mediocre option	0	4	0	100.0%
	good option	0	0	4	100.0%
	Overall Percent	20.0%	40.0%	40.0%	100.0%
Testing	worst option	0	0	0	0.0%
	mediocre option	0	1	0	100.0%
	good option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.077	52.4%
Second discourse in text	.124	84.0%
Third discourse in text	.124	84.4%
CONTACT RESTRICTION	.081	55.3%
SANITATION AND HYGIENE	.147	100.0%
ISOLATION OF INFECTED	.051	34.4%
TOTAL ISOLATION	.101	68.4%
HEALTH CARE	.023	15.6%
VIRUS DISSEMINATION	.065	43.9%
LIFESTYLE CHANGES	.042	28.3%
RIGHTS AND FREEDOMS INFRINGEMENT	.094	64.1%
BUREAUCRATIC RESPONSE	.070	47.6%



*Multilayer Perceptron Network.

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5 D6 D7 D8 D9

/RESCALE COVARIATE=STANDARDIZED

/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0

/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)

```

/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
  SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
  ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:19:56
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\MyDocs\Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.46

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

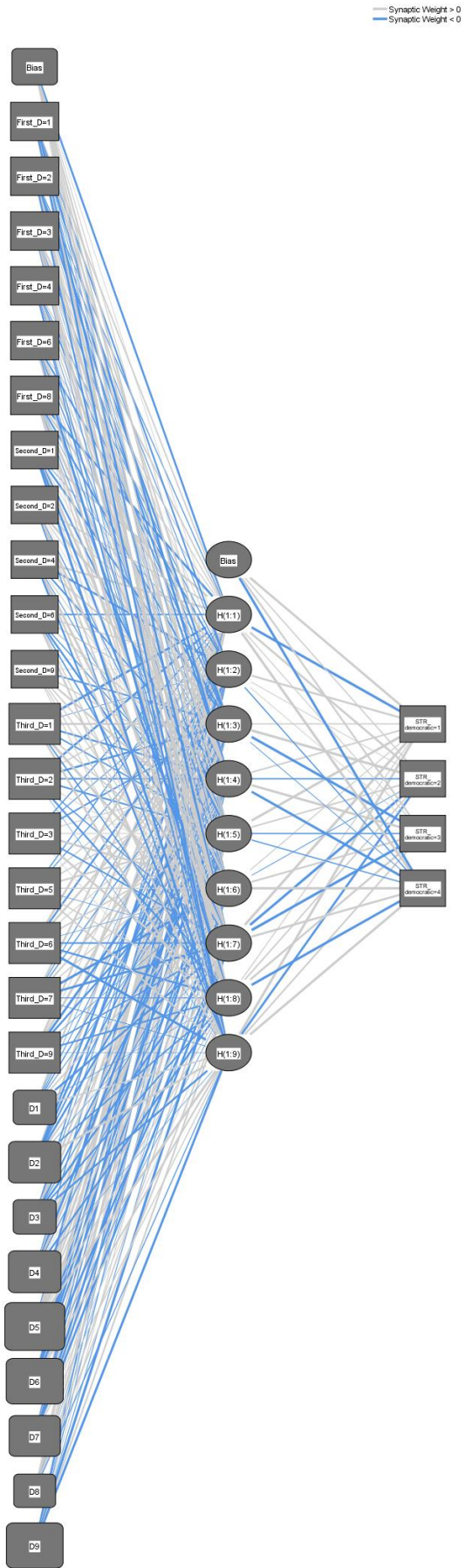
		N	Percent
Sample	Training	10	76.9%
	Testing	3	23.1%
Valid		13	100.0%
Excluded		91	
Total		104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	27
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	9
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	1.406
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.02
Testing	Cross Entropy Error	1.408
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1									Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	H(1:9)	[STR_democ ratic=1]	[STR_democ ratic=2]	[STR_democ ratic=3]	[STR_democ ratic=4]
Input Layer													
(Bias)	-.472	.019	.101	.367	.258	.245	.323	.055	.090				
[First_D=1]	.220	-.298	.279	-.663	-.029	-.067	-.568	.601	-.485				
[First_D=2]	-.129	-.105	-.443	-.328	.197	.098	.541	.236	-.359				
[First_D=3]	.248	.075	-.198	.624	-.004	.143	.634	.498	-.051				
[First_D=4]	.129	-.126	-.220	.387	.159	-.078	.041	-.147	-.218				
[First_D=6]	.108	-.345	.092	.538	-.171	.092	-.063	-.687	.276				
[First_D=8]	-.574	.386	-.340	-.014	.689	-.124	.710	.214	.001				
[Second_D=1]	.413	-.033	-.424	.038	-.360	.631	-.569	.092	-.694				
[Second_D=2]	.222	.133	.591	.116	.003	-.148	.850	.296	-.189				
[Second_D=4]	.530	-.486	.328	-.293	.065	-.104	.686	.362	-.362				
[Second_D=6]	-.271	.212	.227	.230	-.165	-.425	-.221	.152	.427				
[Second_D=9]	.017	.037	-.317	.180	.429	.201	.146	.158	.110				
[Third_D=1]	-.720	-.054	.482	-.377	-.234	.242	.930	-.225	.495				
[Third_D=2]	-.543	.209	-.485	-.264	-.294	.041	-.173	-.359	-.011				

[Third_D=3]	-.195	-.112	-.265	.114	.083	.501	-.266	.528	.017				
[Third_D=5]	-.176	-.146	.162	.208	.369	.161	-.029	.193	.286				
[Third_D=6]	.555	-.397	.497	.098	.252	-.021	-.307	-.403	-.738				
[Third_D=7]	.441	-.118	-.164	.354	.188	-.746	-.584	-.121	-.067				
[Third_D=9]	.482	.087	.552	-.658	-.442	-.052	-.239	-.324	-.013				
D1	.381	-.030	-.102	-.183	-.093	.250	-.493	-.030	.244				
D2	.629	-.439	-.529	-.253	-.496	.309	-.033	-.264	.539				
D3	-.213	-.093	.459	.353	-.326	-.136	-.501	-.320	-.456				
D4	-.180	.074	.757	-.691	.509	-.153	.033	-.427	-.023				
D5	-.609	.290	.587	.400	.251	.324	.452	.186	.656				
D6	1.089	-.547	-.519	-.706	-.369	.057	-.446	-.034	.325				
D7	.272	-.306	-.192	.376	-.586	-.413	-.502	.050	.150				
D8	.126	.247	.037	.151	.534	-.010	.220	.268	-.127				
D9	.099	-.231	-.067	-.114	.084	-.087	-.864	.287	-.610				
Hidden Layer	(Bias)									.612	.180	.348	-.768
1	H(1:1)									-.912	.511	.115	.876
	H(1:2)									.455	.088	.055	-.177
	H(1:3)									.200	.900	-1.299	-.083
	H(1:4)									.258	-.223	.688	-.809
	H(1:5)									.738	.265	-.173	-.170
	H(1:6)									.140	-.083	.358	.731
	H(1:7)									.949	-.873	-1.166	.524
	H(1:8)									.120	.245	.482	-.830
	H(1:9)									.765	-.535	.309	.748

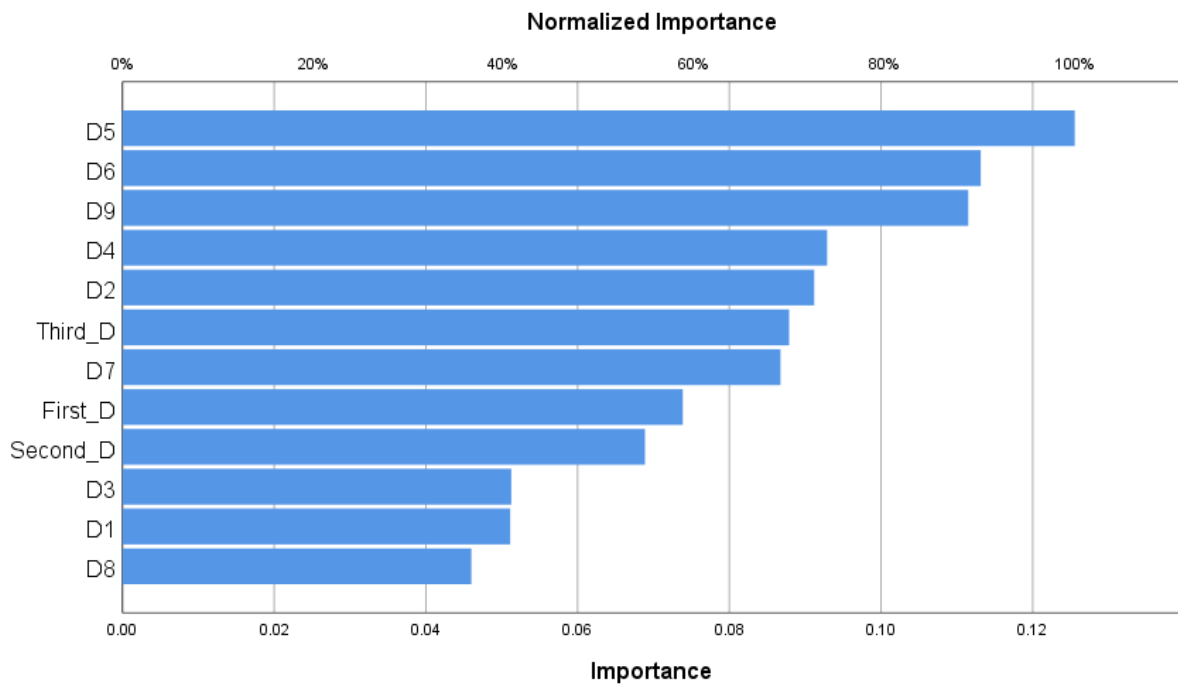
Classification

Sample	Observed	Predicted				Percent Correct
		worst option	mediocre option	good option	best option	
Training	worst option	4	0	0	0	100.0%
	mediocre option	0	2	0	0	100.0%
	good option	0	0	3	0	100.0%
	best option	0	0	0	1	100.0%
	Overall Percent	40.0%	20.0%	30.0%	10.0%	100.0%
Testing	worst option	1	0	0	0	100.0%
	mediocre option	0	2	0	0	100.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent	33.3%	66.7%	0.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.074	58.8%
Second discourse in text	.069	54.9%
Third discourse in text	.088	70.0%
CONTACT RESTRICTION	.051	40.7%
SANITATION AND HYGIENE	.091	72.6%
ISOLATION OF INFECTED	.051	40.8%
TOTAL ISOLATION	.093	74.0%
HEALTH CARE	.126	100.0%
VIRUS DISSEMINATION	.113	90.1%
LIFESTYLE CHANGES	.087	69.1%
RIGHTS AND FREEDOMS INFRINGEMENT	.046	36.6%
BUREAUCRATIC RESPONSE	.111	88.8%



*Multilayer Perceptron Network.

```

MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.000005
SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:20:03
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.45

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

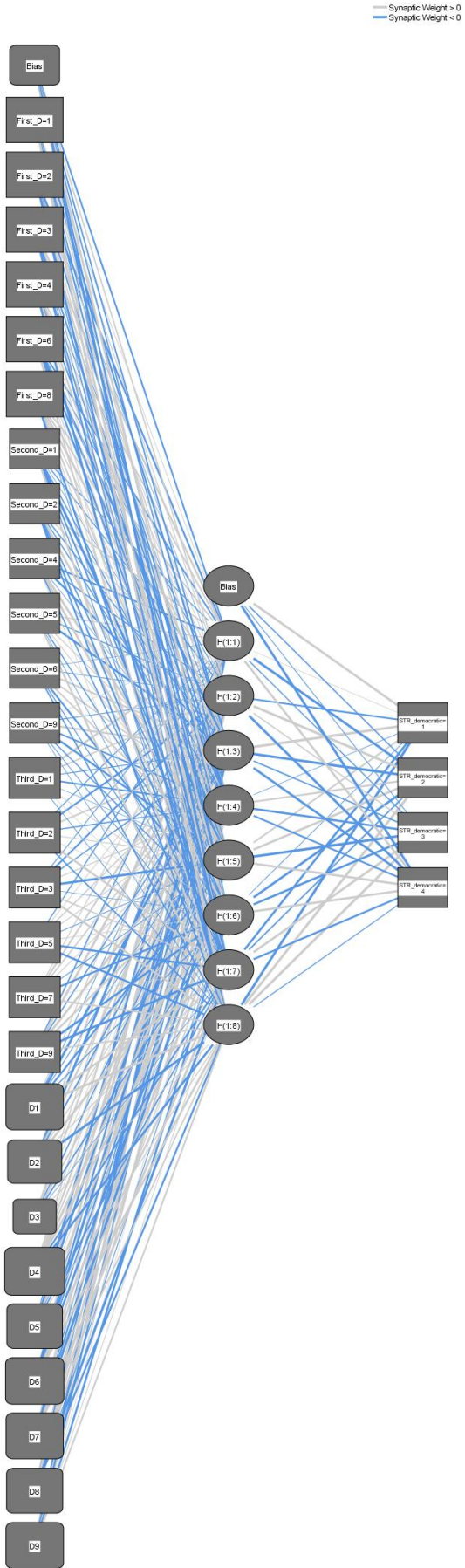
	N	Percent
Sample		
Training	11	84.6%
Testing	2	15.4%
Valid	13	100.0%
Excluded	91	
Total	104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	27
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	8
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	.163
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.00
Testing	Cross Entropy Error	.011
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1								Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	H(1:7)	H(1:8)	[STR_democr atic=1]	[STR_democr atic=2]	[STR_democr atic=3]	[STR_democr atic=4]
Input Layer												
(Bias)	-.439	.263	-.328	-.223	.636	-.454	-1.218	.138				
[First_D=1]	.066	.129	-.505	.147	-.249	-.355	.418	.735				
[First_D=2]	-.486	-.033	.258	-.365	.147	.457	-.772	-.104				
[First_D=3]	.548	.092	-.073	-.351	-.092	-.104	-.221	-.460				
[First_D=4]	.347	.131	.966	-.294	.482	.112	.001	-.665				
[First_D=6]	-.383	-.147	-1.615	-.580	-.505	.130	.067	.349				
[First_D=8]	.371	.374	.609	.163	.436	.117	-.552	-.054				
[Second_D=1]	-.155	-.177	-.032	-.178	-1.265	-.416	-.132	.566				
[Second_D=2]	.329	.172	-.201	-.175	.594	-.261	-.466	-.367				
[Second_D=4]	-.447	-.192	-.565	-.042	.866	.775	-.235	.052				
[Second_D=5]	.156	-.176	-.708	.156	.116	-.183	-.061	.529				
[Second_D=6]	-.045	-.096	.474	.347	.425	-.510	-.146	-.293				
[Second_D=9]	.038	-.124	.538	-.392	-.591	-.191	-.104	-.053				
[Third_D=1]	.615	.276	-.131	-.428	-.014	.074	.009	-.082				
[Third_D=2]	-.137	-.503	.440	-.219	.129	.039	.606	-.319				
[Third_D=3]	-.106	-.483	-.223	.166	-.865	-.032	.326	.565				
[Third_D=5]	-.170	.072	.210	.126	-.105	.072	-.568	-.600				
[Third_D=7]	.148	.473	.315	.125	-.106	-.519	.020	.456				
[Third_D=9]	-.253	.944	-.228	.844	.549	-.741	-.961	.359				

D1	.161	-.103	-1.025	-.111	-.538	-.161	.763	.960				
D2	.338	-.948	.506	-.359	.158	.810	.172	-.977				
D3	.185	.446	.062	-.230	.420	-.312	-.063	.112				
D4	.369	.041	.537	.339	1.278	.675	-.475	-.746				
D5	-1.028	.638	-.787	.058	.670	-.024	-.325	.149				
D6	.684	-.485	-1.909	-.347	-.635	.633	.541	.709				
D7	.225	.285	-.179	-.509	-1.177	.183	.857	.318				
D8	.484	-.503	.765	.478	.636	-.115	-.961	-.524				
D9	-1.107	.499	-.557	.188	.027	-.602	.097	.450				
Hidden Layer 1 (Bias)									.887	-.221	-.104	-1.039
H(1:1)									.040	-1.149	-.167	.719
H(1:2)									-.442	1.129	.254	-1.003
H(1:3)									2.884	-1.576	-.283	-.888
H(1:4)									-.049	.493	-.637	-.477
H(1:5)									.471	.826	-1.595	.804
H(1:6)									-.083	-.876	-.751	.777
H(1:7)									-.712	-.318	.938	-.550
H(1:8)									-1.441	1.422	1.692	-1.43

Classification

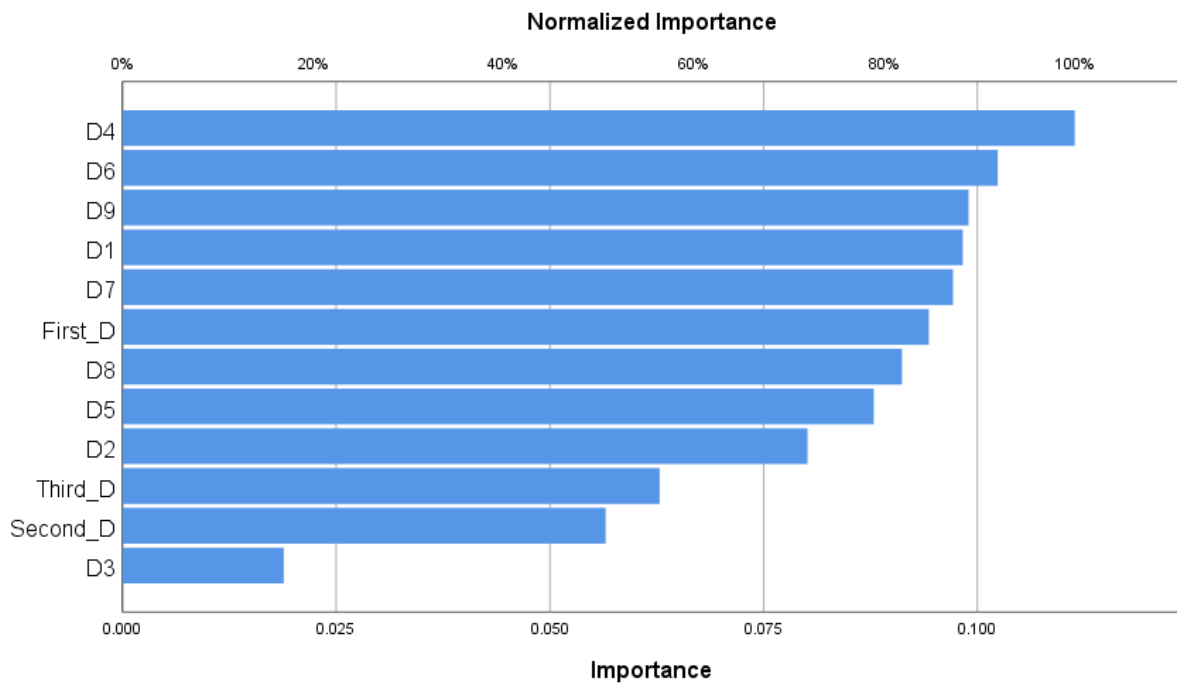
Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	4	0	0	0	100.0%
	mediocre option	0	3	0	0	100.0%
	good option	0	0	3	0	100.0%
	best option	0	0	0	1	100.0%
	Overall Percent	36.4%	27.3%	27.3%	9.1%	100.0%
Testing	worst option	1	0	0	0	100.0%
	mediocre option	0	1	0	0	100.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent	50.0%	50.0%	0.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

Importance	Normalized Importance

First discourse in text	.094	84.7%
Second discourse in text	.057	50.7%
Third discourse in text	.063	56.4%
CONTACT RESTRICTION	.098	88.2%
SANITATION AND HYGIENE	.080	71.9%
ISOLATION OF INFECTED	.019	16.9%
TOTAL ISOLATION	.111	100.0%
HEALTH CARE	.088	78.9%
VIRUS DISSEMINATION	.102	91.9%
LIFESTYLE CHANGES	.097	87.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.091	81.9%
BUREAUCRATIC RESPONSE	.099	88.9%



```

*Multilayer Perceptron Network.
MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.000005
SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK

```

```

/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
  ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

```

*Multilayer Perceptron Network.
MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
  SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
  ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:20:49
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\MyDocs\Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.

Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling	not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.42
	Elapsed Time	00:00:00.44

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

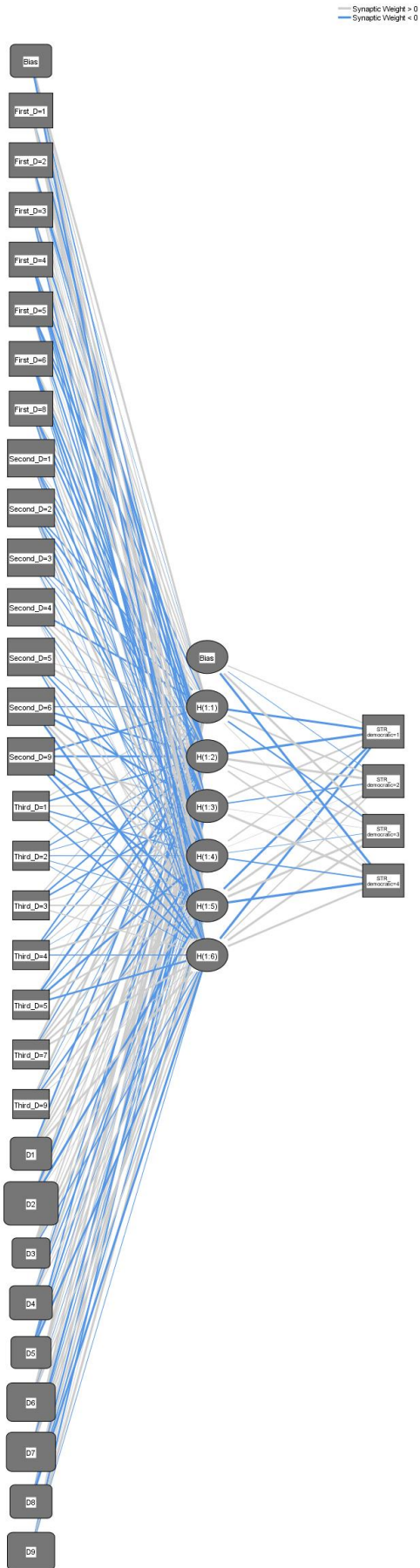
		N	Percent
Sample	Training	13	92.9%
	Testing	1	7.1%
Valid		14	100.0%
Excluded		90	
Total		104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	30
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	6
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	8.804
	Percent Incorrect Predictions	30.8%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.03
Testing	Cross Entropy Error	.097
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1						Predicted	Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	[STR_democ ratic=1]	[STR_democ ratic=2]	[STR_democ ratic=3]	[STR_democr atic=4]	
Input Layer											
(Bias)	.841	.177	-.279	.313	.821	-.600					
[First_D=1]	-.004	.210	-.574	.652	1.154	.041					
[First_D=2]	.275	-1.248	-.155	.024	.079	.201					
[First_D=3]	.343	-.549	.136	.272	.386	-.328					
[First_D=4]	.209	-.520	.358	-.619	-.432	-.223					
[First_D=5]	-.358	-.522	.017	-.415	-.128	.186					
[First_D=6]	.024	.613	-.534	-.759	-.426	-.136					
[First_D=8]	.273	-.394	-.515	.339	.144	-.360					
[Second_D=1]	.112	-.197	-.446	-.238	.576	-.181					
[Second_D=2]	-.327	-.497	-.011	-.687	1.364	-.052					
[Second_D=3]	-.267	-.095	-.219	.030	-.192	.020					
[Second_D=4]	-.575	.387	.428	-.268	-.049	.106					
[Second_D=5]	.150	.843	-.183	-.426	.302	-.370					
[Second_D=6]	-.259	-.559	-.922	.697	.926	-.923					
[Second_D=9]	-.775	-.646	.513	-.501	-1.022	-.506					
[Third_D=1]	.216	-.453	.167	-.338	.351	-.536					
[Third_D=2]	.209	-.262	-.076	-.152	-.118	-.064					
[Third_D=3]	.244	-.459	-.464	.253	.387	.257					
[Third_D=4]	-.484	-.288	.217	-.015	.685	-.202					

[Third_D=5]	.040	-.903	-.109	-.897	.548	-.600				
[Third_D=7]	.861	-.284	.516	.620	.608	.599				
[Third_D=9]	1.007	-.084	.024	-.446	.536	.093				
D1	-.573	.162	.406	.585	.143	1.328				
D2	.722	-1.049	.316	.064	-1.210	.067				
D3	.059	.420	.137	.557	.703	-.266				
D4	.171	-.346	.989	-.320	.120	.222				
D5	-.485	.166	-.494	-.062	.217	-.714				
D6	.391	1.069	.197	-.074	.173	.358				
D7	.636	.183	-.854	-.160	.823	.352				
D8	.107	.346	-.479	.524	-.343	-.925				
D9	.209	.098	-.519	.042	1.333	-.094				
Hidden Layer 1 (Bias)							.219	-.080	1.081	-1.673
H(1:1)							-.967	.532	-.443	.070
H(1:2)							-2.267	1.486	.264	.492
H(1:3)							.567	-.273	.022	1.841
H(1:4)							.391	.005	-.054	-.327
H(1:5)							-1.127	1.435	2.066	-2.587
H(1:6)							-1.610	.326	1.049	.882

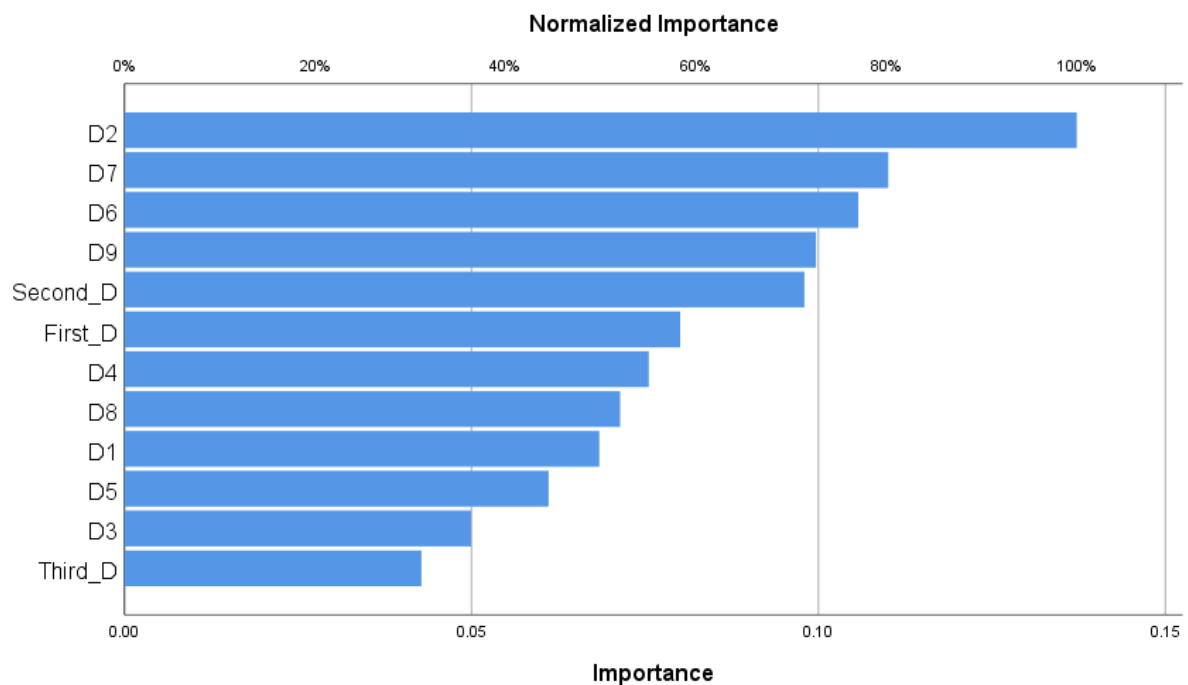
Classification

Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	4	0	1	0	80.0%
	mediocre option	0	2	2	0	50.0%
	good option	1	0	2	0	66.7%
	best option	0	0	0	1	100.0%
	Overall Percent	38.5%	15.4%	38.5%	7.7%	69.2%
Testing	worst option	0	0	0	0	0.0%
	mediocre option	0	0	0	0	0.0%
	good option	0	0	1	0	100.0%
	best option	0	0	0	0	0.0%
	Overall Percent	0.0%	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.080	58.4%
Second discourse in text	.098	71.4%
Third discourse in text	.043	31.2%
CONTACT RESTRICTION	.068	49.9%
SANITATION AND HYGIENE	.137	100.0%
ISOLATION OF INFECTED	.050	36.4%
TOTAL ISOLATION	.076	55.0%
HEALTH CARE	.061	44.5%
VIRUS DISSEMINATION	.106	77.1%
LIFESTYLE CHANGES	.110	80.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.071	52.0%
BUREAUCRATIC RESPONSE	.100	72.6%



```
*Multilayer Perceptron Network.
MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
```

```

    SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
    ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:21:08
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\!MyDocs\!Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
Missing Value Handling	Definition of Missing	User- and system-missing values are treated as missing.
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.44
	Elapsed Time	00:00:00.43

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

The following independent variables are constant in the training sample and are excluded from the analysis: D5.

Case Processing Summary

		N	Percent
Sample	Training	8	88.9%
	Testing	1	11.1%
Valid		9	100.0%
Excluded		95	
Total		104	

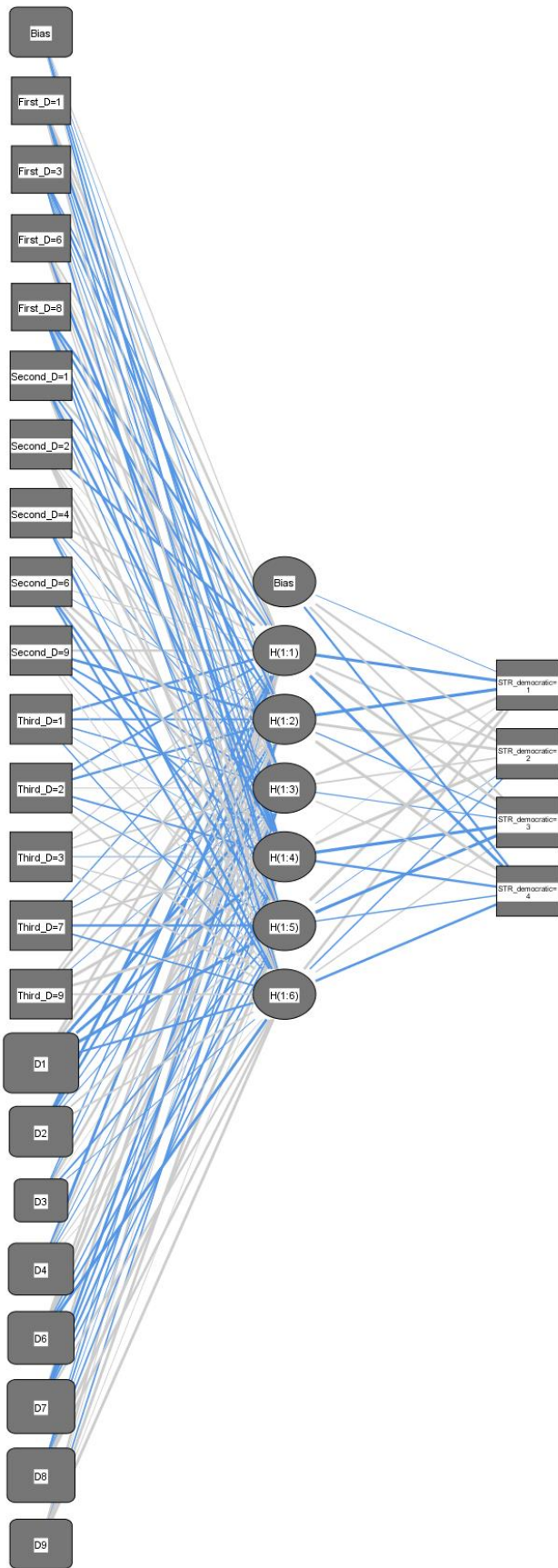
Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	VIRUS DISSEMINATION
		6	LIFESTYLE CHANGES
		7	RIGHTS AND FREEDOMS INFRINGEMENT

	8	BUREAUCRATIC RESPONSE
	Number of Units ^a	22
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	6
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	4
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit

— Synaptic Weight > 0
— Synaptic Weight < 0



Hidden layer activation function: Hyperbolic tangent
Output layer activation function: Softmax

Model Summary

Training	Cross Entropy Error	1.112
	Percent Incorrect Predictions	0.0%
	Stopping Rule Used	1 consecutive step(s) with no decrease in error ^a
	Training Time	0:00:00.01
Testing	Cross Entropy Error	.197
	Percent Incorrect Predictions	0.0%

Dependent Variable: Democratic strategy

a. Error computations are based on the testing sample.

Parameter Estimates

Predictor	Hidden Layer 1						Predicted	Output Layer			
	H(1:1)	H(1:2)	H(1:3)	H(1:4)	H(1:5)	H(1:6)	[STR_democ ratic=1]	[STR_democ ratic=2]	[STR_democ ratic=3]	[STR_democr atic=4]	
Input Layer											
(Bias)	.142	-.012	-.095	-.246	-.329	.075					
[First_D=1]	.544	.377	-.660	-.145	-.284	.274					
[First_D=3]	-.209	-.452	-.103	-.138	.238	-.381					
[First_D=6]	.333	.007	.457	-.743	.222	.184					
[First_D=8]	-.544	-.465	.163	-.244	-.352	-.166					
[Second_D=1]	.556	-.287	.029	-.548	-.176	.381					
[Second_D=2]	-.461	.032	.035	.386	.749	.278					
[Second_D=4]	.334	.229	-.153	.012	-.084	-.461					
[Second_D=6]	.119	-.055	.614	.601	-.511	-.447					
[Second_D=9]	.453	-.574	-.331	-.306	.026	.127					
[Third_D=1]	-.538	-.289	-.226	-.008	.236	-.203					
[Third_D=2]	-.386	-.454	.117	-.305	-.148	.461					
[Third_D=3]	.163	.160	.255	-.038	.191	.327					
[Third_D=7]	-.206	.172	-.112	.405	-.485	-.246					
[Third_D=9]	.313	.533	-.071	.876	.624	.258					
D1	.685	.701	-.802	-.738	-.851	-.390					
D2	-.833	-.502	-.156	-.103	.302	.285					
D3	-.216	-.141	.542	6.687E-5	-.296	-.092					
D4	-.806	.445	-.083	-.134	.094	.022					

	D6	.483	.723	.702	-.208	-.298	-.778				
	D7	.618	-.587	-.352	-.387	-.233	.384				
	D8	-.129	-.245	-.024	-.252	.865	.543				
	D9	.495	.066	-.237	.682	.038	.692				
Hidden Layer	(Bias)							-.055	.464	.404	-.420
1	H(1:1)							-.775	.440	.839	-.809
	H(1:2)							-.935	.667	-.169	.846
	H(1:3)							.594	.257	-.139	.220
	H(1:4)							.016	1.480	-.937	-.458
	H(1:5)							1.072	-.035	-.882	-.195
	H(1:6)							.577	-.219	.210	-.524

Classification

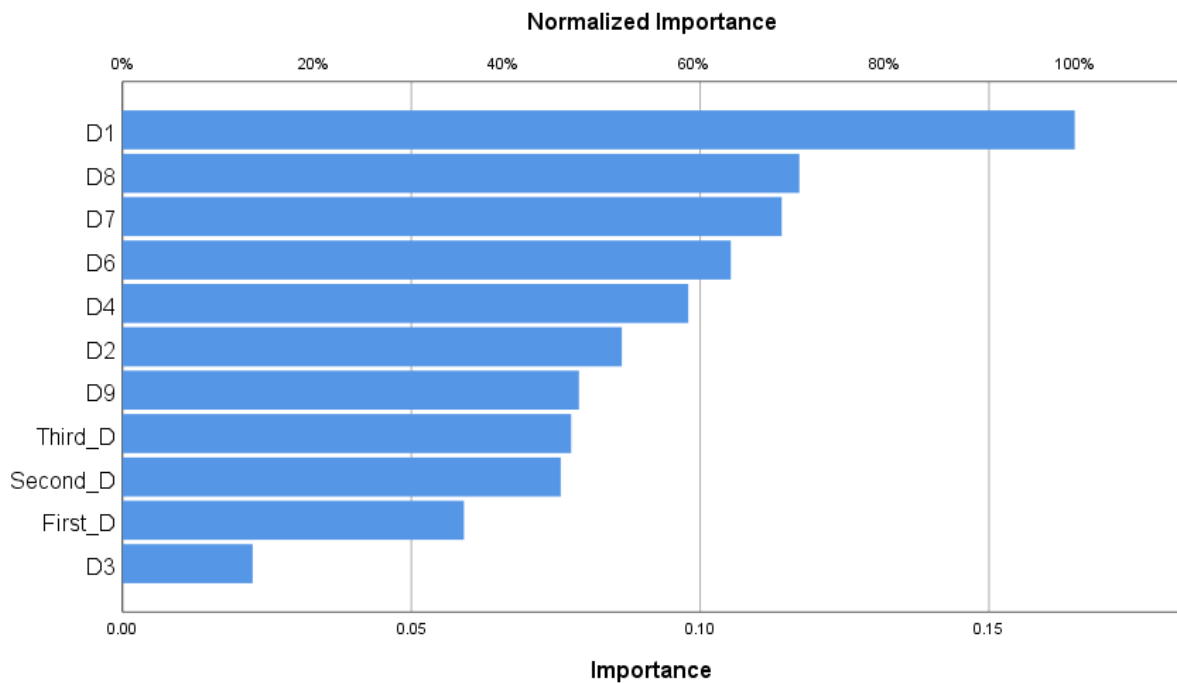
Sample	Observed	worst option	Predicted			Percent Correct
			mediocre option	good option	best option	
Training	worst option	2	0	0	0	100.0%
	mediocre option	0	2	0	0	100.0%
	good option	0	0	3	0	100.0%
	best option	0	0	0	1	100.0%
	Overall Percent	25.0%	25.0%	37.5%	12.5%	100.0%
Testing	worst option	0	0	0	0	0.0%
	mediocre option	0	1	0	0	100.0%
	good option	0	0	0	0	0.0%
	best option	0	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.059	35.9%
Second discourse in text	.076	46.0%
Third discourse in text	.078	47.1%
CONTACT RESTRICTION	.165	100.0%
SANITATION AND HYGIENE	.086	52.4%
ISOLATION OF INFECTED	.023	13.7%

TOTAL ISOLATION	.098	59.4%
VIRUS DISSEMINATION	.105	63.9%
LIFESTYLE CHANGES	.114	69.2%
RIGHTS AND FREEDOMS INFRINGEMENT	.117	71.1%
BUREAUCRATIC RESPONSE	.079	47.9%



```

*Multilayer Perceptron Network.
MLP STR_democratic (MLEVEL=0) BY First_D Second_D Third_D WITH D1 D2 D3 D4 D5
D6 D7 D8 D9
/RESCALE COVARIATE=STANDARDIZED
/PARTITION TRAINING=7 TESTING=3 HOLDOUT=0
/ARCHITECTURE AUTOMATIC=YES (MINUNITS=1 MAXUNITS=50)
/CRITERIA TRAINING=BATCH OPTIMIZATION=SCALEDCONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005 INTERVALCENTER=0 INTERVALOFFSET=0.5 MEMSIZE=1000
/PRINT CPS NETWORKINFO SUMMARY CLASSIFICATION SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES ERRORSTEPS= 1 (DATA=AUTO) TRAININGTIMER=ON (MAXTIME=15)
MAXEPOCHS=AUTO
ERRORCHANGE=1.0E-4 ERRORRATIO=0.001
/MISSING USERMISSING=EXCLUDE .

```

Multilayer Perceptron

Notes

Output Created		13-DEC-2020 16:21:39
Comments		
Input	Data	C:\Users\vitart0\OneDrive\Documents\MyDocs\Science\Quarantine definition survey\SPSS\NN_EN_covid_ordinal_9D.sav
	Active Dataset	DataSet2
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	104
	Missing Value Handling	Definition of Missing
	Cases Used	Statistics are based on cases with valid data for all variables used by the procedure.
Weight Handling		not applicable

Syntax

```
MLP STR_democratic
(MLEVEL=0) BY First_D
Second_D Third_D WITH D1
D2 D3 D4 D5 D6 D7 D8 D9
/RESCALE
COVARIATE=STANDARDIZ
ED
/PARTITION
TRAINING=7 TESTING=3
HOLDOUT=0
/ARCHITECTURE
AUTOMATIC=YES
(MINUNITS=1
MAXUNITS=50)
/CRITERIA
TRAINING=BATCH
OPTIMIZATION=SCALED
ONJUGATE
LAMBDAINITIAL=0.0000005
SIGMAINITIAL=0.00005
INTERVALCENTER=0
INTERVALOFFSET=0.5
MEMSIZE=1000
/PRINT CPS
NETWORKINFO SUMMARY
CLASSIFICATION
SOLUTION IMPORTANCE
/PLOT NETWORK
/STOPPINGRULES
ERRORSTEPS= 1
(DATA=AUTO)
TRAININGTIMER=ON
(MAXTIME=15)
MAXEPOCHS=AUTO

ERRORCHANGE=1.0E-4
ERRORRATIO=0.001
/MISSING
USERMISSING=EXCLUDE .
```

Resources	Processor Time	00:00:00.41
	Elapsed Time	00:00:00.48

Warnings

One or more cases in the testing or holdout sample have factor or dependent variable values that do not occur in the training sample.

These cases are excluded from the analysis.

Case Processing Summary

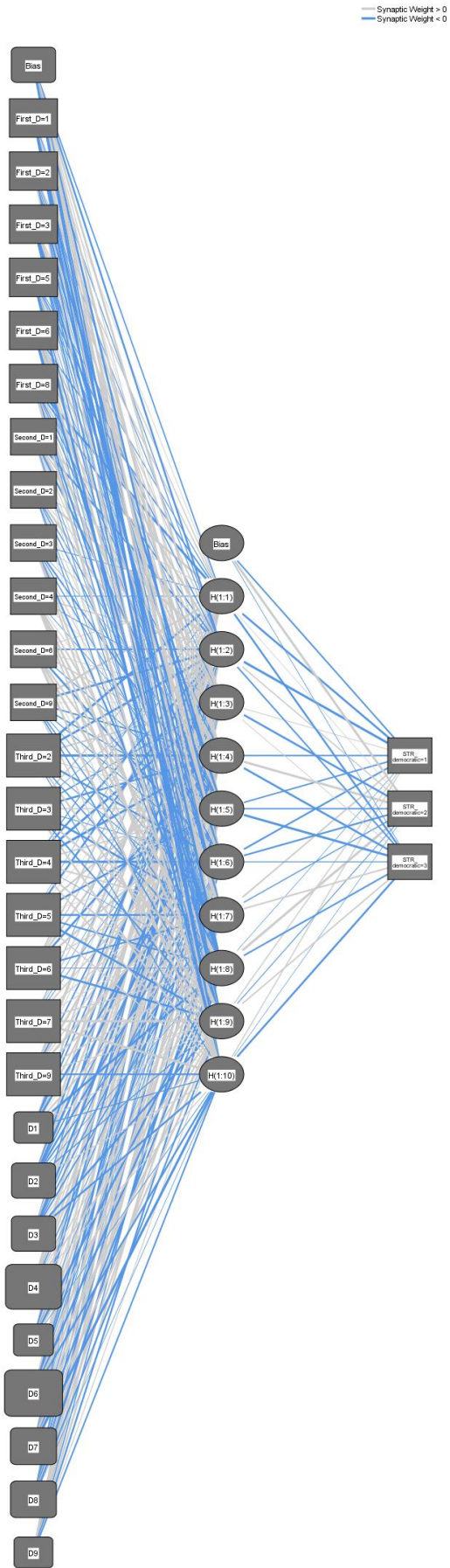
	N	Percent
Sample		
Training	9	81.8%
Testing	2	18.2%
Valid	11	100.0%
Excluded	93	
Total	104	

Network Information

Input Layer	Factors		
		1	First discourse in text
		2	Second discourse in text
		3	Third discourse in text
	Covariates	1	CONTACT RESTRICTION
		2	SANITATION AND HYGIENE
		3	ISOLATION OF INFECTED
		4	TOTAL ISOLATION
		5	HEALTH CARE
		6	VIRUS DISSEMINATION
		7	LIFESTYLE CHANGES
		8	RIGHTS AND FREEDOMS INFRINGEMENT

	9	BUREAUCRATIC RESPONSE
	Number of Units ^a	28
	Rescaling Method for Covariates	Standardized
Hidden Layer(s)	Number of Hidden Layers	1
	Number of Units in Hidden Layer 1 ^a	10
	Activation Function	Hyperbolic tangent
Output Layer	Dependent Variables	1
		Democratic strategy
	Number of Units	3
	Activation Function	Softmax
	Error Function	Cross-entropy

a. Excluding the bias unit



Hidden layer activation function: Hyperbolic tangent
 Output layer activation function: Softmax

[Third_D=2]	- .674	- .557	.338	- .598	.111	- .395	- .114	- .214	.357	- .134			
[Third_D=3]	.239	- .048	- .227	- .399	.188	- .099	- .456	.447	- .278	.382			
[Third_D=4]	- .158	- .403	- .568	- .618	.267	- .638	.302	- .004	.326	.247			
[Third_D=5]	- .003	- .393	.011	.371	- .433	.038	- .400	- .319	- .492	.212			
[Third_D=6]	.323	.228	.494	- .465	.477	.177	- .330	- .035	- .481	.050			
[Third_D=7]	- .050	.178	- .044	- .095	.240	.170	.100	.240	.534	.637			
[Third_D=9]	.747	.091	- .272	.518	.185	.701	.321	.223	.141	- .311			
D1	.336	- .296	- .252	.358	- .460	.009	.325	- .525	.124	- .164			
D2	.386	- .430	.355	- .653	- .243	- .398	- .249	- .044	- .189	.188			
D3	- .229	.382	.370	- .496	- .213	- .231	- .256	.120	- .434	- .417			
D4	.571	.179	.116	.507	.320	- .197	- .040	.160	.334	.144			
D5	.494	- .268	- .341	.018	.180	- .069	.286	- .497	.292	- .069			
D6	.252	.143	.481	- .260	- .349	- .098	.633	- .492	.634	- .350			
D7	.524	- .209	- .054	.263	- .137	.474	.479	- .346	.454	- .674			
D8	- .325	.016	- .218	- .003	- .326	.429	- .517	.365	- .297	- .035			
D9	.487	.299	.192	.220	.511	- .198	.423	- .336	.119	- .269			
Hidden Layer	(Bias)												
1	H(1:1)												
	H(1:2)												
	H(1:3)												
	H(1:4)												
	H(1:5)												
	H(1:6)												
	H(1:7)												
	H(1:8)												
	H(1:9)												
	H(1:10)												

Classification

Sample	Observed	Predicted			Percent Correct
		worst option	mediocre option	good option	
Training	worst option	1	2	0	33.3%
	mediocre option	0	2	0	100.0%
	good option	0	1	3	75.0%
	Overall Percent	11.1%	55.6%	33.3%	66.7%
Testing	worst option	0	0	0	0.0%
	mediocre option	0	2	0	100.0%
	good option	0	0	0	0.0%
	Overall Percent	0.0%	100.0%	0.0%	100.0%

Dependent Variable: Democratic strategy

Independent Variable Importance

	Importance	Normalized Importance
First discourse in text	.091	64.1%
Second discourse in text	.079	55.5%
Third discourse in text	.120	84.3%
CONTACT RESTRICTION	.046	32.0%
SANITATION AND HYGIENE	.070	48.9%
ISOLATION OF INFECTED	.070	49.4%
TOTAL ISOLATION	.131	92.2%
HEALTH CARE	.049	34.1%
VIRUS DISSEMINATION	.142	100.0%
LIFESTYLE CHANGES	.080	56.4%
RIGHTS AND FREEDOMS INFRINGEMENT	.079	55.8%
BUREAUCRATIC RESPONSE	.043	30.0%

